
COMMUNICATIONS EQUIPMENT SOFTWARE NOTE 5 (for Electronics Technicians)

Maintenance Branch

W/OPS12: GSS

SUBJECT : CRS Build 9.0.1 Software Installation Procedures

PURPOSE : This document contains the procedures for installing the Console Replacement System (CRS) Build 9.0.1 software. The tasks necessary for installing the software are included in Attachment A.

SITES AFFECTED : All CRS Sites

EQUIPMENT AFFECTED : CRS (B440)

PARTS REQUIRED : W/OPS12 will issue the following:
CRS Build 9.0.1 Installation CD

PARTS SUPPLIED BY THE SITE : None

TOOLS AND TEST EQUIPMENT REQUIRED : None

TIME REQUIRED : 15 minutes

EFFECT ON OTHER INSTRUCTIONS : None

AUTHORIZATION : The authority for this modification is Request for Change AB803.

VERIFICATION STATEMENT : This procedure was tested and verified at National Weather Service Headquarters (WSH), Silver Spring, MD (SLVM2).

GENERAL : This procedure contains instructions for upgrading the CRS software.

TECHNICAL ASSISTANCE : For questions or problems pertaining to this software note, please contact Nancy Helderma n at (301) 713-019, x139 or Joel Nathan at (301) 713-0191, x119.

PROCEDURE : Attachment **A** provides procedures for implementing this modification. Attachment **B** provides a completed sample of an EMRS report.

REPORTING : Report the completed modification using the Engineering
INSTRUCTIONS Management Reporting System (EMRS) according to the instructions
in NWS Instruction 30-2104, Maintenance Documentation, Part 4 and
Appendix G. Include the following information on the EMRS report:

- a. An equipment code of **CRSSA** in block 7.
- b. A serial number of **001** in block 8.
- c. A modification number of **S5** in block **17a**.

A sample EMRS report is provided as attachment **B**.

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Attachment **A** - Installation Procedures
Attachment **B** - Sample EMRS Report

Attachment A

Installation Procedures

Attachment A Installation Procedures

NOTE: Please read this procedure completely from start to finish before attempting the installation.

NOTE: The entire procedure can be completed in under 15 minutes.

Overview

This patch adds new event codes to the table that triggers a CIV originator code for SAME messages. The following modified file will be installed in /crs/data/SS on 0mp and 5mp: *SAME_event_codes.dat*. This patch will upgrade Build 9.0 sites to Build 9.0.1. Use the following procedure to install the patch files.

WARNING

If the Build 9.0 application software is reloaded from CD, this patch must be reapplied immediately following the reload.

NOTE: Log in as **root** to run this procedure.

NOTE: The CRS system must be operating with all FEPs functioning properly. Both 5MP and 4BKUP should be up, but not switched in (yellow on status screen). Do not run the installation on OMP as the **Master Processor**. The script will not run on 5MP.

NOTE: The CRS system must be **STOPPED** temporarily in order to execute this procedure.

1. If not already logged into the CRS Main display, log in as user **admin**.
2. Take CRS down: on the main menu bar, click on **System** then select **Stop System**. Click on the **OK** button when the pop-up window appears.
3. Wait for the *Status* window to display all down indicators.
4. Click on **Maintenance** then **Unix Shell** to open a UNIX shell window.

5. To login as user **root**, type in the following UNIX command shown in bold:
OMP{admin} **su - root**
Enter the password when prompted. DO NOT forget "-" in the command.
6. At the command line prompt, enter the following commands (shown in **bold**) to ftp transfer the Build 9.0.1 patch file from the AWIPS NOAA1 ftp server. Enter the commands carefully and include spaces where required.

NOTE: The following is an **EXAMPLE** from a *NWSHQ Build 8* test system session.

```

OMP{root} ftp 165.92.25.15
Connected to 165.92.25.15.
220-
220-*****WARNING*****WARNING*****WARNING*****WARNING*****
220-*
220-* YOU HAVE ACCESSED A UNITED STATES GOVERNMENT COMPUTER. USE OF THIS *
220-* COMPUTER WITHOUT AUTHORIZATION OR FOR PURPOSES FOR WHICH *
220-* AUTHORIZATION HAS NOT BEEN EXTENDED IS A VIOLATION OF FEDERAL LAW *
220-* CAN BE PUNISHED WITH FINES OR IMPRISONMENT (PUBLIC LAW 99-474) . *
220-* REPORT SUSPECTED VIOLATIONS TO THE INFORMATION TECHNOLOGYSECURITY*
220-* OFFICER (ITSO) . *
220-* *
220-* *
220-*****WARNING*****WARNING*****WARNING*****WARNING*****
220-
220 NOAA1 FTP server (Version 1.1.214.4 Mon Feb 15 08:48:46 GMT 1999) ready.
Name (165.92.25.15:crs): ftp
331 Guest login ok, send your complete e-mail address as password.
Password: Use your full email address. For example, John.Doe@noaa.gov
230 Guest login ok, access restrictions apply.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> cd /crs/patches
250 CWD command successful.
ftp> lcd /crs
Local directory now /crs
ftp> bin
200 Type set to I.
ftp> get b901patch.tar
local: b901patch.tar remote: b901patch.tar
200 PORT command successful.
150 Opening BINARY mode data connection for b901patch.tar (15872 bytes).
226 Transfer complete.
15872 bytes received in 0.08 seconds (1.9e+02 Kbytes/s)
ftp> bye
221 Goodbye.
OMP{root}

```

7. At the command line prompt, enter the following commands (shown in **bold**) to install the patch files.

```
OMP{root} cd /crs
```

```
OMP{root} tar xvf b901patch.tar
```

```
OMP{root BETA} tar xvf b901patch.tar
x b901binaries.tar, 3072 bytes, 6 tape blocks
x b901install, 8301 bytes, 17 tape blocks
x b901list, 21 bytes, 1 tape block
OMP{root}
```

```
OMP{root} ./b901install
```

NOTE: The following is an example from the installation script on a *NWSHQ Build 7* test system:

```
OMP{root} ./b901install
11/13/03 11:28:41 EST: INFO: starting b901install script on OMP
11/13/03 11:28:41 EST: INFO: Pre-delivery version is 9.0 on OMP
UX:tar: INFO: blocksize = 6
x SAME_event_codes.dat, 161 bytes, 1 tape block
11/13/03 11:28:41 EST: INFO: SAME_event_codes.dat saved as
/crs/data/SS/SAME_event_codes.dat.Build90 on OMP
11/13/03 11:28:41 EST: INFO: SAME_event_codes.dat copied on OMP
11/13/03 11:28:42 EST: INFO: SAME_event_codes.dat saved as
/crs/data/SS/SAME_event_codes.dat.Build90 on 5MP
11/13/03 11:28:43 EST: INFO: SAME_event_codes.dat copied on 5MP
11/13/03 11:28:44 EST: INFO: temp files removed on OMP
11/13/03 11:28:44 EST: INFO: b901install script complete on all
11/13/03 11:28:44 EST: INFO: CRS Build 9.0.1 has been installed on all
OMP{root}
```

8. Wait for the installation script to finish running, noting any **ERROR** message(s) that appear. If **ERROR** messages appear, contact the CRS Support Team. All output messages are saved in the */crs/b901install.log* file.
9. Load the database ascii file, (the *daily.ASC* file is fine) to load the new table of events and trigger the CIV originator code.

Left click on **blank space** on the Omp screen.

Select **XCRS_SITE Utility**.

Click **Select ASCII Site Setup** on the right side of the screen.

Highlight selected file (**daily.ASC** is fine).

Click **OK** to confirm the selected file.

Click **Initialize System Configuration Only** on the upper left side of the screen.

Click **Start Site Configure** on the upper right side of the screen.

Click **OK** to confirm *perform transmitter reconfiguration*.

Wait for the load to complete, noting any **ERROR** message(s) that appear.

If ERROR messages appear, contact the CRS Support Team.

If there were no errors, click **Exit**

10. Ensure new event codes loaded, by using the following procedure:

At the display's UNIX prompt type:

/crs/bin/crs_site -p

The current configuration will scroll by quickly. At approximately the middle of the screen, the system displays *NWRSAME Civilian Event Codes*. Ensure the following codes are displayed:

NWRSAME Civilian Event Codes

Slot 0) ADR

Slot 1) AVA

Slot 2) AVW

Slot 3) CAE

Slot 4) CDW

Slot 5) CEM

Slot 6) EQW

Slot 7) EVI

Slot 8) FRW

Slot 9) HMW

Slot 10) LAE

Slot 11) LEW

Slot 12) NIC

Slot 13) NMN

Slot 14) NPT

Slot 15) NUW

Slot 16) RHW

Slot 17) SPW

Slot 18) TOE

Slot 19) VOW

11. Restart CRS from the main menu bar. Click **System**, then select **Start System**. Click **OK** when the pop-up window appears, then click the **Close** button.

<p>NOTE: The CRS build number will indicate 9.0.1 upon completion of the Build 9.0.1 upgrade patch installation.</p>

12. To verify the successful installation of the Build 9.0.1 upgrade patch, perform the following procedure:
 - a. Click **Help** on the *CRS Main* menu.
 - b. Click **About** and verify the system displays *APPLICATION VERSION: 9.0.1*.
13. At the command line prompt, type **exit** twice to close the *Unix Shell* window.

14. Wait for the CRS Application to completely start, with *Green* up arrows in the *Status States* window on the Master MP.
15. Open the *Alert Monitor* window.
 - a. Click **System**.
 - b. Click **Alert Monitor**.
16. Monitor the *Alert Monitor* window and ensure the system is operational.

Attachment B

EMRS Report Sample

Attachment B - EMRS Report Sample

A26 Detail Form - ESCM2, SILVER SPRING, MD :: EMRS ANALYST - Microsoft Internet Explorer

New A26 Commit A26 Place on Hold Copy A26 Delete A26 Detail Report Preference Document Summary Help

GENERAL INFORMATION

NEW RECORD WFO* DVN Document No.* DVN30324000

1. Open Date Open Time 2. Op Initials 3. Response Priority 4. Close Date Close Time

03/24/2003 08:00 WSH ☐ Immediate ☐ Low 03/24/2003 12:00

☐ Routine ☒ Not Applicable

5. Maintenance Description 437 characters left NWR/CRS

Upgrade CRS software to Build 9.0 and VIP software to Build 3.0

EQUIPMENT INFORMATION

6. Station ID* 7. Equipment Code 8. Serial Number 9. TM 10. AT 11. How Mal

DVN CRSSA 001 M M 999

Alert: Time Remaining: (For Block 12 use only)

13. PARTS USAGE and CONFIGURATION MANAGEMENT REPORTING

ASN	Vendor Part No. (New Part)	Serial Number (Old Part)	Serial Number (New Part)	
				New Row
				Delete Row

14. WORKLOAD INFORMATION

a. Routine	b. Non-Routine	c. Travel	d. Misc	e. Overtime
Hours Minutes	Hours Minutes	Hours Minutes	Hours Minutes	Hours Minutes
			4 00	

MISCELLANEOUS INFORMATION

15. Maintenance Comments 673 characters left

Upgraded CRS and VIP software I.A.W. Communications Equipment Software Note 4

16. Tech Initials

WSO

17. SPECIAL PURPOSE REPORTING INFORMATION

a. Mod No. b. Mod Act/Deact Date c. Block C d. Trouble Ticket No. e. Block E

S4 03/24/2003

Commit A26 Place on Hold Copy A26 New A26 Cancel